

MULTIBAND/MULTICHANNEL WIRELESS FEEDER APPROACH

Abstract of th Invention

An antenna system comprising a support structure and a multiband/multichannel wireless feeder configured for coupling antennas located proximate the top of a support structure with electronics located proximate the base of the support structure to overcome losses typically associated with coaxial cables. Such a multiband/multichannel wireless feeder includes a waveguide having a coupling at each end and a multiplexing waveguide network coupled at each end of the waveguide and configured to combine frequencies and applications.